JANUARY TO DECEMBER VOLUME 64

- 1	A			
	AC anodising shows promise Adaptive weld control intelligence			
	developedAdvanced pretreatment	_ 12		
	Advanced pretreatment	_ 80		
	Adventures in the sheet metal foothills of the plastic range	538		
	Alumasc invests £2M in stainless steel keg plant			
	Artificial legs make the most of composites			
	Aurora's new £1.45M ring rolling mill Automan 87	632		
	Automatic pack selection of laminations			
	Automatic press unloading and robot			
	racking system	272		
	Automatic sheet storage system Automatic tube mill for Brasway Automation through retrofit	510		
	Automation through retrofit	275		
	Automotive applications dominate deep			
	Automotive oil filter can body	411		
	manufacture at Fram	137		
	drawing meeting	34		
	В			
	Belgian volume manufacturer of press brakes and guillotines moves up- market			
	brakes and guillotines moves up-	170		
	Benson opts for MCNC folder in factory	410		
	modernisation	184		
	Bridges and ladders into engineering	475		
	BSC Shotton to revamp No 1 electrogaly			
	line	_ 70		
	Burr-free notching	_ 90		
	С			
	Cad/Cam brings saving to profiler	592		
	Cad/Cam shapes up	592 257		
	Cad/Cam shapes up Cad/Cam systems for sheet metal	257		
	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture	257		
	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press	. 257 . 598		
	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press	. 257 . 598		
-	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction?	. 257 . 598		
	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing	. 257 . 598 . 182 . 332		
	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing	. 257 . 598 . 182 . 332		
	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing	. 257 . 598 . 182 . 332		
	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing	. 257 . 598 . 182 . 332		
	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing	. 257 . 598 . 182 . 332		
	Cad/Cam shapes up Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future	257 598 182 332 270 594 350 248		
	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coating stopplier looks to the future Cold rolling process: attainment of	257 598 182 332 270 594 350 248 656		
	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip	257 598 182 332 23 270 594 350 248 656 236		
T.	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip Coil coating for deep drawing	257 598 182 332 270 594 350 248 656 236 80		
1987	Cad/Cam shapes up Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip Coil coating for deep drawing Coil coating pre-treatment the low profile	257 598 182 332 270 594 350 248 656 236 80		
3ER 1987	Cad/Cam shapes up Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip Coil coating for deep drawing Coil coating pre-treatment the low profile technology with a high profile	257 598 182 332 270 594 350 248 656 236 80		
EMBER 1987	Cad/Cam shapes up Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip Coil coating for deep drawing Coil coating pre-treatment the low profile	257 598 182 332 270 594 350 248 656 236 80 e		
ECEMBER 1987	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip Coil coating for deep drawing Coil coating pre-treatment the low profile technology with a high profile performance Combined shearing and folding machine for constructional purposes	257 598 182 332 270 594 350 248 656 236 80 e - 74 es 190		
DECEMBER 1987	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip Coil coating for deep drawing Coil coating pre-treatment the low profile technology with a high profile performance Combined shearing and folding machine for constructional purposes Combined slitting and cut to length lines	257 598 182 332 270 594 350 248 656 236 80 e		
ES LI DECEMBER 1987	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip Coil coating for deep drawing Coil coating for deep drawing Coil coating pre-treatment the low profile technology with a high profile performance Combined shearing and folding machine for constructional purposes Combined slitting and cut to length lines Combined splitting and upsetting of	257 598 182 332 270 594 350 248 656 236 80 e 74 es 190 90		
I'RIES DECEMBER 1987	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip Coil coating pre-treatment the low profile technology with a high profile performance Combined shearing and folding machine for constructional purposes Combined splitting and cut to length lines Combined splitting and upsetting of rotationally symmetrical components	257 598 182 332 270 594 350 248 656 236 80 e - 74 es 190		
OSTAILS - DECEMBER 1961	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip Coil coating for deep drawing Coil coating pre-treatment the low profile technology with a high profile performance Combined shearing and folding machine for constructional purposes Combined splitting and cut to length lines Combined splitting and upsetting of rotationally symmetrical components Computerised parts programming	257 598 182 332 270 594 350 248 656 236 80 90 86		
INDUSTRIES DECEMBER 1987	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip Coil coating for deep drawing Coil coating for deep drawing Coil coating pre-treatment the low profile technology with a high profile performance Combined shearing and folding machine for constructional purposes Combined splitting and cut to length lines Combined splitting and upsetting of rotationally symmetrical components Computerised parts programming improves productivity for Malcoe	257 598 182 332 270 594 350 248 656 236 80 e 74 es 190 90		
ALINDUSTRIES DECEMBER 1987	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip Coil coating for deep drawing Coil coating for deep drawing Coil coating for deep hawing Coil coating for deep drawing Combined shearing and folding machine for constructional purposes Combined splitting and cut to length lines Combined splitting and upsetting of rotationally symmetrical components Computerised parts programming improves productivity for Malcoe Computerised special shear for blank	257 598 182 332 270 594 350 248 656 236 80 90 86		
IETAL INDUSTRIES U DECEMBER 1861	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip Coil coating for deep drawing Coil coating for deep drawing Coil coating pre-treatment the low profile technology with a high profile performance Combined shearing and folding machine for constructional purposes Combined splitting and cut to length lines Combined splitting and upsetting of rotationally symmetrical components Computerised parts programming improves productivity for Malcoe Computerised special shear for blank	257 598 182 332 23 270 594 350 248 656 236 80 e - 74 es 190 90 86 310		
I METALINDUSTRIES LI DECEMBER 1987	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip Coil coating for deep drawing Coil coating pre-treatment the low profile technology with a high profile performance Combined shearing and folding machine for constructional purposes Combined splitting and cut to length lines Combined splitting and cut to length lines Computerised parts programming improves productivity for Malcoe Computerised special shear for blank cutting with minimum scrap Concentric invests in presses to meet predicted capacity shortage in future	257 598 182 332 270 594 350 248 656 236 80 e 74 es 190 90 86 310		
SHEET METAL INDUSTRIES © DECEMBER 1987	Cad/Cam shapes up Cad/Cam systems for sheet metal design and manufacture Cad/Cam technology applied to press brake automation Can adhesives meet the challenge of vehicle bodyshell construction? Changing requirements and changing attitudes Changing role of the steel stockholder CNC profile cutting CNC punch press survey Coatings for coil Coating supplier looks to the future Cold rolling process: attainment of properties in sheet and strip Coil coating for deep drawing Coil coating pre-treatment the low profile technology with a high profile performance Combined shearing and folding machine for constructional purposes Combined splitting and cut to length lines Combined splitting and cut to length lines Computerised parts programming improves productivity for Malcoe Computerised special shear for blank cutting with minimum scrap Concentric invests in presses to meet predicted capacity shortage in future	257 598 182 332 23 270 594 350 248 656 236 80 e - 74 es 190 90 86 310		

texture investigated by CRM	548
Copper based alloys — application as	_
carrier materials for integrated circuit	S 524
and connectors Corner notcher Cupping process in deep drawing and	_ 86
Cupping process in deep drawing and	
ironing	128
D	_
Decoupling flatness and gauge control	
by the Nipco system in cold rolling Deep drawing without blankholder	397
Description of plasma arc cutting	584
Design and manufacture of strip	
processing equipment by computer	
Design Engineering show preview Development and current state of the	430
fine blanking process Developments in press feeding	562
Developments in press feeding	399
Developments in the manipulation of tube	e 514
and pipe Developments in tinplate	293
Е	
ECCA 1986 annual congress ECCA celebrates its 20th birthday Edge preparation of plate for welded	_72
ECCA celebrates its 20th birthday	488
ioints	88
joints Edge trimming machines Flectrical components manufacturer by	90
Liectrical components manuacturer buy	0
20th high speed press Electrocoating lacquering technique for	144
the two piece can industry	250
the two piece can industry Electronic control and diagnostic	
monitoring	16
monitoring EMO Milano (7) Engineering in the flat	20
Euramax commissions new coil coating	
line	243
European development for Becker Expert design system for cold-formed	_72
sections	400
F	_
50% capacity increase for Tafarnaubach	_70
colorcoat line Fine blanking accuracy in high-speed	_ 10
production	568
Flexible manufacturing the way forward	416
for the GDR	124
Freezer production at Lec	494
From hand spinning to robotics	127
Fume extraction Fume extraction at catalytic converter	_ 27
plant	234
Н	_
Hand spinning spots a market niche	126
Heavy fabrication for the mining	532
industryHelicopter manufacturers approach to	004
aluminium flat sheet deburring	32
High specification parts by fine	ECC
	566 112
High speed saw for display rack	112
manufacture	140
High value added welded pipe from	202
Bentham International Horizontal deep drawing of stepped	302
components	130
Hot water tank production simplified	67

HSLA cold forming steels Hydraulic notching of varying angles Hydraulic press brakes with enhanced	396
control Hydraulic quick tool clamping systems Hydraulic single column drawing press	
I	
	_
Inauguration of the UK superplastic form groupIndustrial regeneration through	
	_ 18
opportunities	124
	140
International council of sheet metal pressworkers	214
International stamping industry opts for automation and quality	509
Introduction to quality management	
Italian die manufacturer adopts	
computerised data transfer	140
I	
JIT process applied to high speed	_
	522
Justifying planned maintenance in the absence of good data	
L	
Laser punch press heads flexible sheet	_
metal working cell	_ 67
Last words48, 100, 152, 204, 260,	316,
380, 440, 500, 552, 608, Looked at CNC in presswork lately?	
M	
Major advances in timplate technology	290
Major advances in tinplate technology Making the best of spot welding Markets open for aluminium foil	_24
Markets open for aluminium foil Materials handling automation — a new	000
	366
Materials handling automation — a new angle from Device	
angle from Dexion	276
angle from Dexion Mechanical interlocking without piercin for joining sheet metal	276
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet	. 276 lg . 578
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/	. 276 ig . 578 . 328
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/ cam Metron invests in Cad for computer	. 276 lg . 578 . 328
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/ cam Metron invests in Cad for computer parts Micros for computerised cold roll formin	. 276 lg . 578 . 328 . 622 . 120
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/ cam Metron invests in Cad for computer parts Micros for computerised cold roll formir design Modern industry demands modern	. 276 lg . 578 . 328 . 622 . 120 lg . 216
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/ cam Metron invests in Cad for computer parts Micros for computerised cold roll formir design Modern industry demands modern maintenance methods	. 276 lg . 578 . 328 . 622 . 120 lg . 216
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/ cam Metron invests in Cad for computer parts Micros for computerised cold roll formir design Modern industry demands modern maintenance methods Modular design high-speed stamping at bending machines for IIT	. 276 . 378 . 328 . 622 . 120 . 120 . 198 . 198 . 198
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/ cam Metron invests in Cad for computer parts Micros for computerised cold roll formir design Modern industry demands modern maintenance methods Modular design high-speed stamping at bending machines for JIT Multi-slide machines — a simple solutio	. 276 . 578 . 328 . 622 . 120 . 120 . 198 . 198 . 104 . 198 . 105
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/ cam Metron invests in Cad for computer parts Micros for computerised cold roll formir design Modern industry demands modern maintenance methods Modular design high-speed stamping at bending machines for IIT	. 276 . 378 . 328 . 622 . 120 . 120 . 198 . 198 . 198
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/ cam Metron invests in Cad for computer parts Micros for computerised cold roll formin design Modern industry demands modern maintenance methods Modular design high-speed stamping at bending machines for JIT Multi-slide machines — a simple solutio a complex problem Multi-slide machines for production of	. 276 . 328 . 328 . 622 . 120 . 120 . 216 . 198 . 198 . 100 . 198 . 100 . 100
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/ cam Metron invests in Cad for computer parts Micros for computerised cold roll formir design Modern industry demands modern maintenance methods Modular design high-speed stamping at bending machines for JIT Multi-slide machines — a simple solutio a complex problem Multi-slide machines for production of hi-tech products N	276 g g g 578 . 328 . 622 . 120 g 216 . 198 and . 662 . 60
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/ cam Metron invests in Cad for computer parts Micros for computerised cold roll formir design Modern industry demands modern maintenance methods Modular design high-speed stamping at bending machines for JIT Multi-slide machines — a simple solutio a complex problem Multi-slide machines for production of hi-tech products	276 gg .578 .328 .622 .120 gg .216 .198 ad .662 .660
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/ cam Metron invests in Cad for computer parts Micros for computerised cold roll formir design Modern industry demands modern maintenance methods Modular design high-speed stamping at bending machines for JIT Multi-slide machines—a simple solutio a complex problem Multi-slide machines for production of hi-tech products N NC and CNC in the press and sheet metalshop NC part programming to CAD	276 198 198 198 198 198 198 198 198
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/ cam Metron invests in Cad for computer parts Micros for computerised cold roll formir design Modern industry demands modern maintenance methods Modular design high-speed stamping at bending machines for JIT Multi-slide machines — a simple solutio a complex problem Multi-slide machines for production of hi-tech products N NC and CNC in the press and sheet meta shop NC part programming to CAD New Galvalume sheet licensees	276 99 578 328 622 120 99 216 198 ad 66 60 100 60 60 60 60 60 60 60 60 60 60 60 60 6
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/ cam Metron invests in Cad for computer parts Micros for computerised cold roll formin design Modern industry demands modern maintenance methods Modular design high-speed stamping at bending machines for JIT Multi-slide machines or Jist Multi-slide machines for production of hi-tech products N NC and CNC in the press and sheet meta shop NC part programming to CAD New Galvalume sheet licensees News review 2, 50, 102, 154, 206,	276 99 578 328 622 120 92 216 198 ad 66 60 100 60 60 456 456 72 262,
angle from Dexion Mechanical interlocking without piercin for joining sheet metal Mechanised plasma welding in sheet metal fabrication Metal Box Engineering invests in cad/ cam Metron invests in Cad for computer parts Micros for computerised cold roll formir design Modern industry demands modern maintenance methods Modular design high-speed stamping at bending machines for JIT Multi-slide machines — a simple solutio a complex problem Multi-slide machines for production of hi-tech products N NC and CNC in the press and sheet meta shop NC part programming to CAD New Galvalume sheet licensees	276 99 578 328 622 120 92 216 198 ad 66 60 100 60 60 456 456 72 262,

0	Profile nibbler introduced88	Some new results in experimental study
£1.3M plating development528	Profiling centres provide consistency for	of FLD28
	plate fabricator405 Profiling for sheet122	Sophisticated forming for Aerospace 234
Optimism prevails amongst north east metal workers 462	Profiling for sheet122	Spinning capability based on many years
metal workers462 Osram — GEC adopts DNC to improve	Protective coating for domestic appliance	of experience348
Osram — GEC adopts DNC to improve	manufacturer80	Spinning poses a serious challenge to
productivity536 Oven kits to order144	Protecting pre-coat from damage644	pressed or cast components348
Oven kits to order144	Protecting sophisticated equipment 476	Stainless steel beer barrels — a durable
P		option to keep the crooks at bay 114
The state of the s		Steel coins for the future628
Phenix works meets demand for smaller	Quadruple ram presses138	Sub contract laser profiling127
lots of precoat646	Quadrupio ium prosoco	Superplastic aluminium forming 232
Phosphating and metal pretreatment80	R	Superplastic forming of titanium alloy sheet230
Phosphation of electronic components 80		sheet 230
Picking up the thread342	Rapid stacking of press blanks142	
Planned welding maintenance at Peugeot599	Recent CNC developments 18	T
Peugeot599 Plasma cutting improves productivity of	Ring rolling and section bending	Technology development to meet the coil
ductwork manufacture582	basic principles for changing	coating industry's needs246
Plasma cutting press forms part of major	technology630	Time for change164
investment for hoist specialist410	Robots in garden tractor manufacture 122	Tool selection without human
	Roll forming by CAD546	intervention — a sheet metal project at
Plastics versus metals — argument or dialogue?637	Roll forming lines dedicated to particular	Edinburgh454
Playback spinning — the first five	applications226	Transbend* provides a key to flexible
years346	Roll forming of prepainted metal-coated	automation180
Pneumatic notcher90	sheet steels218	Trends in German silencer manufacturing
Polish press manufacturer celebrates	Roll forming with reduced changeover	equipment117
anniversary68	time226	Trimming of deep drawn parts by laser 590
Polythene protective coating — benefits to	Roll levelling of flat parts for welding 574	11
the sail section industry and	Rotational tool head turns up	11
the coil coating industry and fabricators82	productivity241	
		Uncommon approach to metal forming 634
Positional control automates forming line 15	S	Universal forming66
Precision roller levelling for the 21st century 572	Save toolmaking costs with low metal	Up-to-date accelerated corrosion test 251
century572	Save toolinaking costs with low metal	US punch press tooling via freefone 624
Precision strip for the pressworker 306	alloys 618 Saving at blasting plant 36	
Precoated steel for the automotive	Shape nesting for profile cutting 596	V
industry	Sheet metal fabricator goes CNC 138	
Preform snape for spinning curvilinear	Sheet metal forming the flexible way 286	Van Leer shows commitment to steel drum
parts406 Press automation15	Sheet metal forming title flexible way zoo Sheet metal forming within a flexible	manufacture110
Press automation15	manufacturing system450	Versatile edge measurement unit90 Versatile rubber pad presses284
Press forming of superplastic sheet for aerospace components 228	Sheet metal working company develops	Versatile rubber pad presses284
Pressing at the frontiers of computer	its own press range126	
control168	Sheet metal work in Wessex — Hardy	W
Press that makes its own tooling620	but not obscure120	Weldable tin can material introduced 294
Production of punched parts taken in	Silo production enhanced127	Weldex 87417
house178	Sixty years of Sheet Metal Industries 164	Westland Helicopter's experience with
Products & Processes 40, 95, 145, 199,	Software package for maintenance	rubber pad forming282
254, 311, 370, 435, 496, 547, 600, 658	management 198	What future coated sheet in buildings? 490
201, 011, 010, 100, 100, 011, 000, 000	indiagonion100	William and Coulou Siloot in Danamigs.
INDEX TO AUTHORS	Guidi, A472	Moreau, V488 Morrison, L618
A	Gur, M406	Morrison, L618
711 · · 7		N
Abbots, J630	Н	N
Addison, H 514	Hammond, C228	Newbould, A J246
Ahlstrom, CH 490	Harbert, GK 32, 282	
Asbey, B60, 522	Humayun, A218	P
В		Peacock, D 230
		Peng Ke
Beaumont, P286	Jelf, R 164 Johannison, TG 286	Pitt R 23
Blade, J C 477	Johannison, T.G	Pitt, R 23 Pollitt, DH 117, 346
Blascik, F132	Johnson, W 538	Foliat, D11 111, 040
Brookes, P 248	Juen, A R574	R ACC
Burns, A.J.—92		Rehr, W422
Busch, A399		Rhodes, A216
С	Köllschen, N422	210
Campion, D J 128		S
Campion, D 128 Cunningham, J 475	L	Sawle, R232
	Lee, M284	Shah, R400
E	Lewis, B82	Smith, R342
Edwards I	Lloyd, E164	Smith, A
Edwards, J414		Smith, A476 Suga, S251
F	M	5uga, 5 251
	Mand UI	w
Farshbaf, MR450	Mead, HJ272	187-1-1- D.D
Fay, P 232	Mill, F454 Milner, D A400	Rehr, W 422 Rhodes, A 216 S Sawle, R 232 Shah, R 400 Smith, R 342 Smith, A 476 Suga, S 251 W Walduck, R P 328 Wilkins, R 584 Wold, E 396 Woodhouse, J W 196
G	Mitchell DI	Wilkins, R584
	Mitchell, PJ74	Wold, E396
Griffin, A O397	Moody, I N 332	Woodhouse IW

